



*Dear Friends,*

*We are happy to offer you more than 100 varieties of hops from all over the world, as well as provide basic recommendations on hops use and possible substitutes.*

*Sincerely yours,  
The Castle Malting Team*





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*Malt is the soul of beer... and yeast gives it life..  
but the kiss of the hop is the vitality of that life!*

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# *Belgian Malts that Make Your Beer So Special*

## **AROMA HOPS**

VARIETY	ALPHA ACID, %	ORIGIN	ALTERNATIVE	RECOMMENDED USE
<b>Ahtanum</b>	5 - 8	USA	Cascade Amarillo	Lager, American Ales
<b>Amarillo</b>	7 - 11	USA	Cascade Centennial	American Ales, IPA
<b>Amethyst</b>	3.5 - 6	The Czech Rep.	-	-
<b>Aquila</b>	6.5	USA	Cluster	no longer grown
<b>Aurora (Super Styrian)</b>	6.5 – 9.5	Slovenia	Perle Sladek	Lager, Pilsen
<b>Beata</b>	5 - 7	UK	-	Lager, Pilsen
<b>Bobek</b>	2 - 5	Slovenia	Cascade Smaragd	Ale, Stout, Lager, Pils
<b>Bouclier</b>	7 - 9	France	Tradition Select Spalt Tettninger	Pilsner, Lager, Ales, Belgian style, Saison, Bière de Garde
<b>Bramling Cross</b>	5 - 7	UK	Willamette	Ales, especially Christmas Ales
<b>Cascade</b>	5 - 9	USA	Centennial Amarillo	American-Style Ales, especially Pale Ale, IPA, Porter, Barley Wines, can also be used in Witbier
<b>Citra</b>	11 - 14	USA	Fuggle Willamette Golding	IPA, strong American and Belgian Ales
<b>Cobbs (Golding clone)</b>	4.4 - 6.7	UK	East Kent Goldings	Traditional ales, IPA
<b>Crystal</b>	3 - 6	USA	Mount Hood Liberty	Pilsner, Lager, Kölsch, ESB, Alt, Belgian-Style Ales
<b>Delta</b>	4 - 7	USA	Fuggle Willamette	IPA
<b>Early Bird (Golding clone)</b>	4 - 6	UK	Goldings	Traditional Ales, IPA
<b>East Kent Goldings</b>	5 - 8	UK	Goldings Sovereign Progress	All English style Ales, Belgian-Style Ales, Stout, Porter, most Lagers





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VARIETY	ALPHA ACID, %	ORIGIN	ALTERNATIVE	RECOMMENDED USE
<b>Eastwell Golding (Golding clone)</b>	5 - 8	UK	East Kent Goldings	All English style Ales, Belgian-Style Ales, Stout, Porter, most Lagers
<b>Ella (ex. Stella)</b>	14 - 16	Australia	-	Wide range of beer styles
<b>Endeavour</b>	05-Sep	UK	Northern Brewer	-
<b>Flyer</b>	9 - 12	UK	-	-
<b>Fuggles</b>	4 - 7	UK	Willamette Progress Sovereign Golding	All English style Ales, ESB, Bitter, Lager, and Lambic
<b>Fuggles</b>	4 - 5.5	USA	UK Fuggle Willamette Styrian Golding	Any English-style beer or American Ales, Lambic
<b>Glacier</b>	4 - 7	USA	Willamette Golding Fuggle	Pale Ale, ESB, Bitter, English-Style Pale Ale, Porter, Stout
<b>Goldings</b>	4 - 8	USA	East Kent Golding Progress	All English-style beers, especially all Bitters and Pale Ale, Belgian-Style Ales, Barley Wine
<b>Hallertauer</b>	3.5 - 5.5	USA	Liberty Tradition	Lager, Pilsner, Bock, Wheat, Kölsch, Munich Helles, Belgian-Style Ales
<b>Hallertauer Hersbrucker</b>	2 - 4	Germany	Strisselspalt Haller. Mittelfruh	Lager, Pilsner, Bock, Weizen Bock, Wheat, Belgian-Style Ales, Kölsch, Munich Helles
<b>Hallertauer Mittelfruh</b>	3 - 6	Germany	Hersbrucker	Traditional German beers
<b>Harmonie</b>	4 - 8	The Czech Rep.	-	-
<b>Hersbrucker Pure</b>	4.7	Germany	Strisselspalt	Traditional German beers
<b>Hersbrucker Spät</b>	2 - 4.5	Germany	Strisselspalt	Traditional German beers
<b>Jester</b>	6 - 8	UK	-	-
<b>Kazbek</b>	5 - 8	The Czech Rep.	Saaz Sterling	-
<b>Liberty</b>	3 - 5	USA	Tradition Mount Hood Crystal	Lager, Pilsner, Bock, US Wheat, Kölsch





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VARIETY	ALPHA ACID, %	ORIGIN	ALTERNATIVE	RECOMMENDED USE
<b>Lubelski (Lublin)</b>	3 - 5	Poland	Saaz Styrian Golding	European Lagers
<b>Mandarina Bavaria</b>	8.5 - 10.5	Germany	-	Pilsner, Lagers, Wheat, Belgian Style Saison
<b>Minstrel</b>	6 - 8	UK	-	-
<b>Mosaic</b>	11 - 14	USA	Simcoe Nugget CTZ	American Pale Ale, American IPA, Blonde Ale, Cream Ale
<b>Motueka</b>	5 - 8	New Zealand	-	Traditional Pilsener styles, traditional European and English Ales
<b>Mount Hood</b>	4 - 7	USA	Crystal Hall. Hersbrucker Strisselspalt	Lager, Pilsner, Bock, US Wheat, Alt, Munich Helles
<b>Opal</b>	5 - 8	Germany	Tettnang East Kent Golding Styrian Savinjski Golding	German Wheat beers, summer Ales, Helles, light European Lagers, light Ales, Saisons, and Belgian Ales
<b>Pacifica (Pacific Hallertau)</b>	4 - 8	New Zealand	Hall. Hersbrucker	Traditional German Lager styles
<b>Palisade</b>	6 - 10	USA	Cascade	English-style Pale Ales
<b>Perle</b>	6 - 9	Germany	Northdown First Gold Northern Brewer	Pale Ale, Porter, Stout, Lager, Pilsner, Weizen, Ale, Alt, Kölsch, Munich Helles
<b>Polaris</b>	19 - 23	Germany	-	Lagers, Ales, Pale Ales, IPAs
<b>Progress</b>	4 - 8	UK	Goldings Fuggles	Ale, Bitter, ESB, Porter
<b>Riwaka</b>	5 - 8	New Zealand	Saaz	Suitable where traditional Saazer types would be employed
<b>Saaz</b>	2 - 5	The Czech Republic	Tettnang Lubelski	Pilsner, Lagers, Belgian-Style Ales, Lambic, sometimes Bitter
<b>Santiam</b>	4 - 7	USA	Tettnang Select Spalt	Lager, US Ales, Pilsner, Belgian Tripel and other Belgian-Styles, Kölsch, Bock, Munich Helles
<b>Saphir</b>	2 - 4.5	Germany	Any noble hop	Pilsen, German Lagers, Belgian Whites





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VARIETY	ALPHA ACID, %	ORIGIN	ALTERNATIVE	RECOMMENDED USE
Savinjski Golding	2 - 4	Slovenia	Saaz Fuggle Tettnang	Ale, Lager, Pilsen, IPA
Select Spalt (Spalter Select)	2 - 5	Germany	Tettnang Saaz	German, continental European, and American Lagers
Smaragd	4 - 6	Germany	-	Ale, Belgian Pale Ales, Imperial Pilsners
Sonnet	3 - 6	USA	Golding	Light Beer
Sovereign	4 - 7	UK	Fuggles Goldings	Any traditional English beer styles
Spalter	2.5 - 5.5	Germany	Select Spalt	Lager, Pilsner, Bock, Alt, Kölsch, Munich Helles
Sterling	5 - 9	USA	Saaz	Pilsner and other Lagers, Ales and Belgian-Style Ales
Strisselspalt	2 - 5	France	Hall. Hersbrucker	Pilsner, Lager, Wheat
Styrian Golding (Celeia)	3 - 6	Slovenia	Tradition Select Spalt	Ale, Stout, Lager, Pilsen
Styrian Golding -B	3.5 - 6.5	Slovenia	Cascade Smaragd	Ale, Stout, Lager, Pilsen
Summer	4 - 7	Australia	-	Pale Ales, Light Mild and IPA's, British and Belgian style Blonde Ales, Triples
Sussex	4 - 7	UK	Fuggles	
Tettnang	4 - 7	Germany	Saaz Select Spalt	Lager, Ale, Pilsner, Weizen, Lambic, Alt, Kölsch, Munich Helles
Topaz	15 - 18	Australia	-	Rakau, Ella, Summit, Columbus
Tradition	4 - 7	Germany	Hall. Hersbrucker	Lager, Pilsner, Bock, Wheat, Weizen
Triskel	8 - 9	France	-	Strisselspalt
Ultra	4.5 - 5	USA	Saaz Hallertauer	Bohemian Pilsen, European-style Lager
Vanguard	5 - 7	USA	Hall. Hersbrucker Mount Hood Liberty	Lager, Pilsner, Bock, Kölsch, Wheat, Munich Helles, Belgian-Style Ales
Vital	9 - 12	The Czech Rep.	-	-
Wai-Iti	2 - 4	New Zealand	-	Golden Ale, Blond Ale
Whitbreads Golding Variety (WGV)	5 - 8	UK	Goldings Sovereign Challenger	English Ales
Willamette	4 - 7	USA	Bramling Cross Fuggles	All English-style Ales, and US Pale and Brown Ales



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## **BITTERING HOPS**

VARIETY	ALPHA ACID, %	ORIGIN	ALTERNATIVE	RECOMMENDED USE
<b>Admiral</b>	14 - 16	UK	Target Pilgrim Magnum	English Ale
<b>Agnus</b>	12 - 14	The Czech Rep.	Horizon Nugget Magnum	Lagers and German Ales
<b>Apollo</b>	15 - 19	USA	Magnum Columbus	American Ales
<b>Archer</b>	4 - 6	UK	-	-
<b>Atlas</b>	5 - 9	Slovenia	-	-
<b>Bravo</b>	14 - 18	USA	Nugget	American IPA, Pale Ale
<b>Brewers' Gold</b>	5 - 9	Germany	Pioneer Northdown	Ale, Heavier German Style Lagers, Lambic
<b>Bullion</b>	8 - 11	UK	Columbus Northern Brewer Brewers Gold	IPA, ESB, Stout
<b>Chelan</b>	12 - 14.5	USA	Galena Nugget	-
<b>Columbus (Tomahawk)</b>	14 - 20	USA	Nugget Simcoe Chinook	US IPA, US Pale Ale, Stout, Barley Wine, Lager
<b>Comet</b>	9 - 11	USA	Galena Summit	American ales, Lagers
<b>Eroica</b>	7 - 15	USA	Northern Brewer	Bitters, Porter
<b>Galena</b>	10 - 14	USA	Nugget Target	Most English-style and American Ales
<b>Green Bullet</b>	10 - 13	New Zealand	Centennial	Lager, Bitter, Irish-Style Dry Stout
<b>Herkules</b>	16 - 20	Germany	-	Pilsners, German-style Lagers, Alt
<b>Horizon</b>	11 - 13	USA	Magnum	All Ales and Lagers
<b>Junga</b>	10 - 13	Poland	Target Nugget Galena	Ales and Lagers, Stout, IPA





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## **BITTERING HOPS**

VARIETY	ALPHA ACID, %	ORIGIN	ALTERNATIVE	RECOMMENDED USE
<b>Magnum</b>	11 - 15	USA	Columbus Horizon Nugget German Magnum	Lagers
<b>Magnum</b>	11 - 15.5	Germany Slovenia	Pilgrim Target Extra Styrian Dana	Lagers, Pilsner types, Stout, Ales. Typically for base bitterness in Lagers
<b>Marynka</b>	8 - 10	Poland	Perle Hersbrucker Strisselspalt Northern Brewer Magnum Brewers Gold	Pilsen, Lager, Pale Ale, Porter
<b>Millenium</b>	12 - 16	USA	Nugget Columbus	Ales, Stout, Barley Wine
<b>Newport</b>	13 - 17	USA	Galena Nugget Fuggle Magnum	Ales, Stout, Barley Wine
<b>Northdown</b>	6 - 9	UK	Northern Brewer Challenger	All Ales, Porter
<b>Northern Brewer</b>	5 - 9	Germany	Northdown, Challenger	ESB, Bitter, English Pale Ale, Porter, Lager, Lambic, Munich Helles
<b>Nugget</b>	10 - 14	USA	Galena Target Magnum	Ales, Stout, Barley Wine
<b>Olympic</b>	10 - 14	USA	Chinook	American-style Ale
<b>Pacific Gem</b>	13 - 18	New Zealand	Cluster	Wide range of beer styles, English Bitter and Stout
<b>Pacific Jade</b>	12 - 14	New Zealand	-	Ales, Lagers
<b>Phoenix</b>	9 - 12	UK	Challenger	English Ales
<b>Pilgrim</b>	9 - 12	UK	Target Admiral	All English-style beers
<b>Pilot</b>	7 - 10	UK	-	-
<b>Pioneer</b>	9 - 12	UK	Brewers Gold East Kent Goldings	English Ale Styles
<b>Pride of Ringwood</b>	9 - 12	Australia	Galena Cluster	Australian Lagers







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## BITTERING HOPS

VARIETY	ALPHA ACID, %	ORIGIN	ALTERNATIVE	RECOMMENDED USE
Magnum	11 - 15	USA	Columbus Horizon Nugget German Magnum	Lagers
Magnum	11 - 15.5	Germany Slovenia	Pilgrim Target Extra Styrian Dana	Lagers, Pilsner types, Stout, Ales. Typically for base bitterness in Lagers
Marynka	8 - 10	Poland	Perle Hersbrucker Strisselspalt Northern Brewer Magnum Brewers Gold	Pilsen, Lager, Pale Ale, Porter
Millenium	12 - 16	USA	Nugget Columbus	Ales, Stout, Barley Wine
Newport	13 - 17	USA	Galena Nugget Fuggle Magnum	Ales, Stout, Barley Wine
Northdown	6 - 9	UK	Northern Brewer Challenger	All Ales, Porter
Northern Brewer	5 - 9	Germany	Northdown, Challenger	ESB, Bitter, English Pale Ale, Porter, Lager, Lambic, Munich Helles
Nugget	10 - 14	USA	Galena Target Magnum	Ales, Stout, Barley Wine
Olympic	10 - 14	USA	Chinook	American-style Ale
Pacific Gem	13 - 18	New Zealand	Cluster	Wide range of beer styles, English Bitter and Stout
Pacific Jade	12 - 14	New Zealand	-	Ales, Lagers
Phoenix	9 - 12	UK	Challenger	English Ales
Pilgrim	9 - 12	UK	Target Admiral	All English-style beers
Pilot	7 - 10	UK	-	-
Pioneer	9 - 12	UK	Brewers Gold East Kent Goldings	English Ale Styles
Pride of Ringwood	9 - 12	Australia	Galena Cluster	Australian Lagers





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## **BITTERING HOPS**

VARIETY	ALPHA ACID, %	ORIGIN	ALTERNATIVE	RECOMMENDED USE
<b>Southern Cross</b>	11 - 14	New Zealand	Northern Brewer Chinook	Light Lagers
<b>Summit</b>	13 - 15	USA	Columbus Simcoe	American IPA, Imperial IPA
<b>Target</b>	9 - 12	UK	Pilgrim Admiral Magnum	All Ales and Lagers
<b>Tillicum</b>	12 - 14.5	USA	Galena Chelan	-





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## DUAL PURPOSE HOPS

VARIETY	ALPHA ACID, %	ORIGIN	ALTERNATIVE	RECOMMENDED USE
<b>Aramis</b>	6 - 8	France	Willamette Challenger Ahtanum	Pilsner, Lagers, Wheat, Belgian Style Saison
<b>Belma</b>	12.1	USA	-	-
<b>Boadicea</b>	6 - 9	UK	Green Bullet Cascade Columbus Chinook	Bitters
<b>Calypso</b>	11 - 14	USA	Cascade Belma	Ales, Stouts and Barley Wines
<b>Centennial</b>	7 - 12	USA	Green Bullet Cascade Columbus Chinook	All US Ale styles, US Wheat beers
<b>Challenger</b>	5 - 9	UK	Northdown Northern Brewer First Gold	English style Ale, Porter, Stout, ESB, Bitter, Barley Wine, Brown Ales
<b>Chinook</b>	11 - 15	USA	Columbus Simcoe	US Style Pale Ale, IPA, Stout, Porter, Barley Wine, Lager (Bittering)
<b>Cluster</b>	6 - 9	USA	Willamette Galena	Ale (Aroma), Lager (Bittering), Stout
<b>Dr Rudi</b>	11 - 14	New Zealand	Green Bullet	Ale
<b>El Dorado</b>	13 - 17	USA	-	Imperial IPA
<b>Extra Styrian Dana</b>	9 - 13	Slovenia	-	-
<b>First Gold</b>	6 - 9	UK	Boadicea Northdown Challenger	Ale, ESB
<b>Galaxy</b>	13 - 15	Australia	Citra Cascade Riwaka Amarillo	American Pale Ale, Amber, IPA





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## **DUAL PURPOSE HOPS**

VARIETY	ALPHA ACID, %	ORIGIN	ALTERNATIVE	RECOMMENDED USE
<b>Nelson Sauvin</b>	10 - 13	New Zealand		American Pale Ale and Super Premiums, Craft and Seasonal beers
<b>Premiant</b>	6 - 10	The Czech Republic	Magnum Perle Northern Brewer Marynka Sybilla Perle	Ales and Lagers
<b>Rakau</b>	11 - 14	New Zealand	Admiral Amarillo Summit	Pale Ales, ESB, and IPA
<b>Simcoe</b>	11 - 15	USA	Columbus	American Ales
<b>Sladek</b>	6 - 8	The Czech Republic	Strisselspalt Sybilla Mount Hood Crystal	Ales and Lagers
<b>Sorachi Ace</b>	10 - 14	USA	Warrior Simcoe Columbus	American Ales, Pale Ales, Wheat
<b>Sticklebract</b>	12 - 15	New Zealand	Northern Brewer	Pale Ale
<b>Super Alpha</b>	10 - 12	New Zealand	-	Ales and Lagers
<b>Sybilla</b>	6 - 8	Poland	Challenger Progress Perle Northern Brewer Magnum Nugget	Ales and Lagers
<b>Waimea</b>	16 - 19	New Zealand	-	IPA, Imperial-style Lager
<b>Wakatu (ex. Hallertauer Aroma)</b>	7 - 10	New Zealand	-	Premium Lagers
<b>Warrior</b>	13 - 15	USA	Nugget Columbus Magnum	Bitter American Ales



## *Belgian Malts that Make Your Beer So Special*

Castle Malting is happy to offer you all the ingredients for brewing quality beer:

- more than 70 types of base and specialty malts
- more than 100 hops varieties from all over the world
- spices for very special beers
- Belgian candy sugars

And caps to crown your beer bottles!

You are always welcome to our microbrewery where you can taste true Belgian beer brewed from our malts as well as test our malts in your beer recipes

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